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Name

INDIAN SCHOOL MUSCAT MIDDLE SECTION **FIRST TERM EXAMINATION 2018-19**



SUBJECT - MATHEMATICS

Code: MXM14

CLASS: 8 Time Allotted: 2 ½ Hrs.

25.09.2018 Max .Marks: 80

General Instructions:

- 1. The question paper comprises of four Sections, A, B, C and D. You have to attempt all the sections.
- 2. All questions are compulsory.
- 3. All answers should be written in the answer sheet provided.

SECTION A

Qns		Marks
1.	The digit in one's place in the cube root of 1728 is	1
2.	The product of $\frac{2}{5}$ and its multiplicative inverse is	1
3.	The measure of exterior angle of a regular hexagon is	1
4.	Find the number of non square numbers between 99 ² and 100 ²	1
5.	The number of taps kept open and the time taken to empty the tank are inproportion	1
6.	Find the product : $(m^2) \times (2m^3) \times (4m^{15})$ <u>SECTION B</u>	1
		2
7.	List any 4 rational numbers between $\frac{-1}{6}$ and $\frac{-1}{3}$	۷
8.	If 12 inches make 30 cm, how many inches are there in 120 cm	2
9.	Find the least number by which 968 must be multiplied to make it a perfect cube	2
10.	Find the number of diagonals of a 24 sided polygon	2
11.	Find the square root of 7056 by long division method	2
12.	Find the area of a rectangle having length (2a - b) and breadth (a+b)	2

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SECTION C

13.	What is the least number added to 5425 to make it a perfect square?	3
14.	A stack of 729 sheets of paper is 27 cm thick. What will be the thickness of a stack of 540 sheets?	3
15.	Find the cube root of 91125 by prime factorization method	3
16.	Simplify: $2m(m^2 - 3m + 1)$ and find the value when $m = 1$	3
17.	The adjacent angles of a rhombus are $(x + 5)^0$ and $(3x - 1)^0$ find all angles of the rhombus	3
18.	Construct a quadrilateral ABCD in which AB = 5.5 cm, BC = 4.4 cm , AC = 5.3 cm AD = 6 cm and CD = 5.7 cm	3
19.	What is the least number by which 9408 must be divided so as to get a perfect square?	3
20.	The product of two rational numbers is $\frac{-14}{9}$. If one of them is $\frac{-5}{18}$, find the other	3
21.	Number. Subtract $(2a^2-3ab+4bc+b^2)$ from $(5a^2-8ab-6cb-4b^2)$.	3
22.	Find the sum of interior angles of a polygon having 20 sides.	3
	SECTION D	
23.	Simplify using suitable property: $\left(\frac{-1}{2}\right) \times \left(\frac{5}{4}\right) + \left(\frac{-3}{8}\right) \times \left(\frac{5}{4}\right)$	4
24.	The exterior angles of a quadrilateral are (2x+5); (x-1); 3x and (3x-4). Find each exterior angle of the quadrilateral.	4
25.	Find the other members of a Pythagorean triplet whose one member is 24.	4
26.	There are 100 students in a hostel. Food provision for them is for 15 days. How long will these provisions last if 25 more students join the group?	4
27.	Construct a rectangle PQRS in which PQ = 6.2 cm and QR = 4.5 cm.	4
28.	Find the perimeter of a square land having area 9604 m ²	4
29.	Simplify: $(3p^2 + 3pq - q^2)(2p + 3q) + 3q^3 - 6p^3$	4
30.	Construct a Rhombus EFGH in which EG = 5.4 cm and FH = 6.8 cm	4

End of the Question Paper.

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